NITE-TIMES NEWS

CHICAGO AREA TIMEX USERS GROUP

EDITOR'S NOTES

The editor will be leaving snow covered Chicago for the next two months to do some work in sunny Arizona. I should be back in time for the April CATUG meeting. Due to my absence, I have assembled a larger, two month edition of the Night-Times News. I hope that everybody enjoys it!

The Nite-Times News is the newsletter of the Chicago Area Timex Users Group. It is available as a Public Domain feature of the North Shore Sinclair BBS (312)473-9415. If you are not a CATUG member and desire to have a hard-copy mailed to your home, please provide $6.00 per year to cover the cost of postage. For an annual fee of $10.00 you can become a CATUG member with full membership privledges. The Chicago Area Timex Users Group is pleased to exchange newsletters with other Timex and Sinclair supporting users groups. If you desire to reprint any articles that appear here, please provide credit to the author and this newsletter. If you have any suggestions or would like to submit an article, you may upload it onto the North Shore Sinclair BBS and leave a message about it with Sysop Gary or write to:

> The Chicago Area Timex Users Group
> Nite-Times News Editor
> 1885A Yorktown Avenue
> Great Lakes, Illinois 60088.

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Articles that appear in this issue are:
- March & April CATUG Meeting
- Nite-Times Classifieds
- Winterfest News
- Telecommuter's Corner
- Connecting The Amdisk III To The Zebra FDD
- Timex Tidbits
- PreVIEW (QL Program)
- CATUG Library Notes

MARCH & APRIL
C.A.T.U.G. MEETINGS

The Chicago Area Timex Users Group meet on the third saturday of each month in the Downers Grove Public Library's Conference Room, from 12:00 to 5:00. The next two meetings will be on the 19th of March and the 15th of April. The library is located at 1050 Curtiss Street in Downers Grove. The CATUG representative for this meeting is Steve Cooper and he can contacted at (312) 968-3553.

DIRECTIONS FROM THE NORTH: Take I-294 (Tri-State Tollway) south to I-88 (East West Tollway). Drive west on I-88 and exit at Highland Avenue. Take Highland south about three miles, during which it's name will change to Main Street. You will cross the Burlington-Northern tracks in downtown Downers Grove and turn right (west) at the next street (Burlington). Proceed one block to Forest Ave. At the intersection of Forest and Burlington is a public parking lot. The Library is located one block south of Burlington at the intersection of Curtiss and Forest. Please note that Burlington is a one-way street (westbound) and Curtiss is a one-way street (eastbound).

DIRECTIONS FROM THE SOUTH: Take I-55 (Stevenson Expway) to the Lemont Rd North exit. Take Lemont Road north about four miles during which it will merge into Main Street. As you go into downtown Downers Grove, you will pass Curtiss Street, and turn left at the next intersection (Burlington), which is the last street before you cross the railroad tracks. Proceed one block west to Forest Ave. At the intersection of Forest and Burlington is a public parking lot. The Library is located one block south of Burlington at the intersection of Curtiss and Forest. Please note that Burlington is a one-way street (westbound) and Curtiss is a one-way street (eastbound).

NITE-TIMES CLASSIFIEDS

The Nite-Times Classified Ads are a service provided to all of our readers. Please submit your ads prior to the 15th of each month. They may be mailed to the Nite-Times News or sent to Sysop Gary via the Feedback Message Base on the North Shore Sinclair BBS (312) 459-5721

✗ ✗ ✗ ✗ ✗
FOR SALE

TS-2068 & Spectrum Software
$20.00: Graphic Adventure Creator
$15.00: Learn To Read (5 Volume Set)
$10.00 For Each Of The Following Titles:

Trap Door	Dan Dare
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$5.00 For Each Of The Following Titles:

Southern Belle	Stagecoach
Special Delivery	Androids(cartridge)

HARDWARE

$20.00: J.Oliger Parallel Printer Port Cable
$10.00: TS-1000 Winky Board
$10.00: Texas Instruments Keyboard
$20.00: TS-2068 rear expansion connector cable(12 inch long)
$7.00: Coleco Power Supply(+5 VDC,-5 VDC,+12 VDC)
$15.00: TS-2068 Byte Back Modem (inop, w/o ps, w/software)

Please send money orders with $1.50 postage included to:
   Donald Brumfield
   106 Kirkfield Dr.
   Cary, NC 27511
   919-859-4142

✗ ✗ ✗ ✗ ✗
FOR SALE

AFFORDABLE HI-RES PLOTTING for the TS-2068 and Commodore 1520 four-color printer/plotter! The plotter can be found at Toys-R-Us stores for $29.95. Iterface hardware (from bareboard to assembled & tested) as well as utility software for screen to plotter graphic transfer, banner making, and word processing are available from:
   John McMichael
   1710 Palmer Drive
   Laramie, WY 82070
A large SASE gets you more info and a sample plot.

✗ ✗ ✗ ✗ ✗
FOR SALE

ZX81 hardware, software and books. It is all available for sale or trade. For a complete list of remaining items send a SASE to:

Anthony Oresteen, 452 Orion Road, Batavia, IL 60510

✗ ✗ ✗ ✗ ✗
FOR SALE

A full library of TS-1000 and TS-1500 software and books. The price is $2.00 - $3.00 per title or a special bulk rate for the entire stock. For more information contact:
   Gary Lessenberry
   1985A Yorktown Ave
   Great Lakes, IL 60088
   312/473-9415

SUNSTATE T/S WINTERFEST '88
By Mary-Lynn Johnson

The Sunstate T/S Winterfest '88 will be hosted by four groups from around the state of Florida. We have people from Jacksonville to Tampa and points between coming together to create the Winterfest.

This event will be held March 4,5 and 6, 1988 in Orlando, Florida at the beautiful Marriott Hotel. This is a luxury hotel of high caliber which is located on International Drive in south Orlando. The hotel offers 1,076 guest rooms nestled in 16 seperate two story buildings including 47 suites. Three heated outdoor pools, four lighted tennis courts, a hydrotherapy pool, winding jogging paths, plus a childrens playground is provided for your comfort. Four Star dining can be enjoyed in the G or other fine restarants in the area. The exibihit hall is 55' X 66' with conference rooms across the hall for our other scheduled events. The Marriott is located just off Interstate 4 at exit 29; Sand Lake Road and International Dr. We are recieving a special convention rate of $90 single or double, and $105 triple or quad occupancy. This makes a $26.25 per night rate possible if you share rooms. Remember, this is a LUXURY hotel. Several members of the exectutive staff visited the hotel a few days ago and it is VERY nice. Please make your reservations as soon as possible directly at the hotel at 1-305-351-2420. The hotel management has agreed to hold a number of rooms for us, but they must be taken before mid-February. Be sure to ask for the special Sunstate T/S Winterfest rate! First night deposit is required. Many other hotel/motels are in the inmeadiate area.

Friday night things will get started with a cocktail party from 8 P.M. to 11 P.M. There will be a $10.00 charge to cover snacks, etc. There will also be a cash bar for those so inclined. This will be a great chance to meet the vendors and T/S programmers prior to the show.

Saturday morning the show offically opens at 9 A.M. Vendors from around the country, along with users group booths will fill most of the exhibit hall. However, there will be an area dedicated to a swap-meet. Doors will close at 9 P.M. Note: WE WILL NOT ALLOW ANY PRE-SHOPPING. This will ensure everyone - fair chance to get in on the best deals.

Sunday the doors open once again at 9 A.M. and will close promptly at 3 P.M. During the course of the weekend, various

SUNSTATE T/S WINTERFEST '88

forums and conferences will be held with various topics and speakers. Smaller study groups are encouraged and always welcome.

Pre-registration for the weekend will be $5 for single or $9 family. At the door the cover will be 8$ single and $12 family. These fees cover all events throughout the weekend with the exception of the cocktail party Friday night. Please use the registration form and make checks payable to: Northeast Florida T/S Users Group.

The following is just a few of the vendors who plan on exihibiting: Varity Sales, Clifford & Grey, Zebra Systems, John Oliger Co., Aerco, Quantum Computing, Markel Enterprises, Curry Computing, TS-2068 Update, Foote Software, A.F.R. Software, Larken Electronics, Sharps Inc., and Time Designs Magazine. We expect more vendors to register every day. Overseas dealers (appx. 25) have also been invited.

Image International Inc. a full service company has been chosen to make your planning easier. Image International will make your airline reservations and guarantee the lowest airfares. They will be using Delta Airlines, but still will get you the lowest fare even if Delta does not service your area. They also offer transportation from and to the airport for $10 per person. Compare this to $17 limo service or $25 taxi fare (one way) and you will find this a bargan. Please specify your choice of transportation when making your reservations with them. Auto rentals are available at reduced rates also. Image International has set up a toll free number for out of state calls 1-800-351-1360. Florida residents please call 1-305-351-1360. We at the Sunstate Winterfest '88 feel that you will be very pleased with their service.

The Sunstate T/S BBS is online 24 hrs., 7 days a week for additional information and up to the minute updates. Any questions or suggestions are welcome. The BBS is set up at 8,1,none 300 baud - call 1-904-775-0093.

Vendors please contact Steve Berg at 904-737-1538 or 6634 Oriole Dr., Jacksonville, FL 32216 for dealer registration details and shipping information. Users groups are also encouraged to participate.

Cut out and mail to: Sunstate T/S Winterfest '88
249 N. Harden Ave., Orange City, FL 32763

Name(s): _____

Address: _____

Phone: _____

Amount enclosed: _____

List Your Users Group: _____

TELECOMMUTER'S CORNER
By Gary Lessenberry

We have lots of activity to report this month. First, if you turn your attention to our monthly T/S BBS list, you will notice that it has thinned out a bit. Many of the boards that had been listed have either died or dropped their T/S SIGs. All the ones currently listed are active. I have three new Bulletin Board Systems to report this month. They are all very good, although not always ecconomical.

The Nicholson Nightime Network is an Atari 1040ST based BBS that operates in Nelson BC, Canada. It operates from 6:00 PM untill 9:00 AM every night. The phone number is (604) 354-4666. The logon parameters are 8/N/1. This BBS has a ZX SIG and file transfer area. The cost of a call to it during the lowest rates on AT&T are 32 cents for the first minute and 27 cents for each additional minute.

The Access*Line*BBS in Indianapolis runs off the TBBS software 24 hours a day. The phone number is (317) 841-7072. The logon parameters are 8/N/1. This BBS has a Timex/Sinclair SIG and file transfer area. The cost of a call to it during the lowest rates on AT&T are 14 cents for the first minute and 12 cents for each additional minute.

The Timewarp BBS operates 24 hours a day on a TS-2068 using the Casboard 2068 software. The phone number is (604) 354-4666. The logon parameters are 8/N/1. The logon password is GORT. This system uses an Oliger FDD to provide multiple message bases and a file transfer are. The cost to call this system during the lowest rates on AT&T are 15 cents for the first minute and 27 cents for each additional minute.

We received notification that PC Pursuit has expanded it's list of acceeible cities. It is now available to the following area codes:

201	202	203	206	212	213	214	215	216	301
303	305	312	313	314	404	405	408	414	415
503	593	602	612	617	618	619	703	713	714
718	801	813	815	816	817	818	913	916	919

Unfortunately, PC Pursuit is not adding any new access terminals for the Chicago area. Therefore, it will still be a toll call to downtown to access the system.

The North Shore Sinclair BBS will be down during the months of February thru April. I will be out of town during that period and unable to properly maintain it. However, it should back online by May 1st with a new phone number and operating hours.

Connecting The Amdek Amdisk III To The Zebra FDD 3000
By Jay Siegle

These are my notes on how you can connect the Amdek Amdisk III unit to your Zebra unit(s) so that you can use the additional 2 disk drives that the Amdek unit has to offer.

This modification was originally made by Tommy from Zebra Systems, and is no longer associated with Zebra now. It was done to an FDD 3000 unit and can be easily adapted for use on the older "grey box" system with little difficulty. I have 2 FDD 3000 & 2 Amdek Amdisk III units and have modified the second disk system myself.

If you do not feel capable of doing this modification yourself, by all means, find a technician who can. This article is meant for those brave & capable souls who have the ability to do it themselves.

The advantages of this modification are quite obvious. You have 4 disk drives on-line in one system offering you 560k of storage capacity. This is most useful in the CP/M mode. Another advantage is the 2 additional disk drives are the same type of disk format. This eliminates the need for multiple copies on different disk formats. The disadvantages are small, but should be noted and taken into consideration. The Amdek Amdisk III units are sensitive to voltage variati ns on the mains power line. Once my unit was connected to the same pair of outlets that my refrigerator was connected to and,n while reading a disk in the Amdek unit, the refrigerator "kicked in" and I lost the whole disk (I theorize it was reading the directory tracks when this unfortunate scenario took place). Also, some times a disk written on the Amdek unit can't be read on the FDD 3000 unit and vice versa. This might be caused by head alignment to be somewhat off between the two units and when temperature and humidity vary. This is easily solved by either placing the problematic disk in the other unit or another drive within that unit - in other words - try the other 3 (or 2) drives before abandoning all hope.

The Amdek Amdisk III units that I have were bought from Peripherals Direct, Ltd. located in Northbrook, Illinois. These units were selling for as low as $30 before they were sold out.

These units take the 3" type disk, known as the CF2. The Amdek Amdisk III unit consists of the following:
(1) Two 3" disk drives mounted vertically housed in attractive beige and grey enclosure
(2) Heavy-duty power supply
(3) Muffin fan
(4) 37-pin "D"-type connector.

It should be noted that you cannot substitute one unit's disk drive in the other; this will not work, for I have tried it. It should also be noted that the Amdek Amdisk III disk drives can determine which side of the disk has been inserted. The LED is green for side "A" or "1" and is red when side "B" or "2" is inserted.

In this modification, I have made my Amdek Amdisk III disk drives "A" and "B", and have made the FDD 3000 unit disk drives "C" and "D". My preference for this was simple: one that the disk drive used most often was drive "A" was now vertically mounted for longer life (supposedly makes a difference), and another reason was that the disks would stay cool no matter how long they were left in the unit because the fan would be blowing constantly. I ran a BBS at the time and the second reason was important to me.

Tools needed for the modifications
----

(1) IC (Integrated Ckt) Puller   (Radio Shack part # 276-1581)
(2) Phillips Screwdriver
(3) Long-nose Pliers   (Radio Shack part # 64-1844)
(4) Diagonal Cutters   (Radio Shack part # 64-1845)
(5) Wire Stripper   (Radio Shack part # 64-1952)
(6) 40-Watt Pencil Iron   (Radio Shack part # 64-2071)
(7) One-Sided Razor Blade-OPTIONAL
(8) Mini Screwdriver Set -OPTIONAL(Radio Shack part # 64-1982)

Parts needed for the modifications
----

(1) 1.5 feet of 34 Conductor Ribbon Cable: You may buy this through Computer Shopper magazine or make this from Radio Shack 36 Connector ribbon cable part # 278-774. To do this, fi measure off 1.5 feet & cut off remainder with the diagonal cutters. Try to make this a straight-across cut through the ribbon cable. Second, use one-sided razor blade to slice off 2 of the 36 cables. This gives you the 1.5 feet of 34 ribbon cable at this point.
(2) 34-Position Female Header Connector (Radio Shack part # 276-1525)
(3) 34-Position Male Header Connector: Not sold by Radio Shack. Check Computer Shopper or electronics parts store.
(4) 37-Position "D-type" Male Flat Ribbon Connector: This is used to mate onto the 37-position "D-type" Female Connector at the reat of the Amdek Amdisk III unit. Make sure that you get the flat-ribbon, non-soldering, connector type. Not sold by Radio Shack. Check Computer Shopper Magazine or an electronics parts store.
(5) Rosin Core Solder (Radio Shack part # 64-001)
(6) Dielectric (Electrical) Tape (Radio Shack part # 64-2348)

Modifications to the Zebra FDD 3000 unit
----

(1) Turn FDD 3000 unit upside down. Remove the 2 outer black screws from each side. Right the unit by turning the upside up (back to normal). Slide off top of unit either towards you or away from you. The interior of the unit is now revealed to you.
(2) Remove the card-edge connector from disk "A" by simply pulling it off the card-edge with your hands. You do not have much ribbon to "play with". Remove the card-edge connector from

Connecting The Amdek Amdisk III
To The Zebra FDD 3000

the ribbon cable and place it back on the ribbon cable about 1 inch lower. This is a time consuming part if done manually. You now have room at the end of the calbe to add the 34-position male header connector. You may find the mini screwdriver set handy here with opening up the card edge connector.

(3) Have the rear of the FDD 300 facing you. Add the 34-position male header connector to the end of the 34 conductor ribbon cable. Install the 34-position male header connector facing the rear of the unit with the slotted side down. The slots are on the inside of the 34-position male header connector. The other side of the inside of the connector is smooth. The slot allows the female cable to mate with it in only one position; you will not be able to mate the female connector if you turn the female upside down.

(4) Insert your ribbon cable through the top one of the two air vents in the rear of the unit. Half of your 1.5 feet 34 connector ribbon cable is inside the unit and half should be outside.

(5) Place the 34-position female header connector at the end of the inside portion of your 1.5 feet of ribbon cable. It should be facing down with the slotted side facing the rear of the unit and also the 1.5 feet of ribbon cable.

(6) Insert the 34-position female header connector into the 34-position male header connector.

(7) Remove the blue IC (integrated circuit) with the IC puller. This blue IC is only on disk drive "A" of the FDD 3000 nit. You should place the IC into a piece of styrofoam and save it in case your Amdek Amdisk III unit ever needs servicing so that you can always replace the blue IC back in. This is pull-up resistor IC (labeled R1 on the circuit board).

(8) If you have your Zebra Floppy Disk Drive System for the Timex 2068 Computer Users Manual, open it up to page 6 and at the top of the page, you will see "2.3 Expanding the System" and a diagram at the bottom of the page. Study this diagram carefully. On disk drive "A" circuit board, locate the jumper labeled J01. With the rear of the unit facing you, it is located directed above the resistor labelled R4. Remove the programing jumper from position 0 of the jumper with the long-nosed pliers and replace it onto position 2 of the jumper. You have now changed disk drive "A" to "C".

NOTE: If you have the old silver boxes and only one disk drive, you are now finished with all the modifications to the Zebra Side. Close up your old silver disk drive "A" and go on to step number 11 in this section. However, if you have the old silver system and two disk drives, close up disk drive "A" and open up disk drive "B" now.

(9) On disk drive "B", remove the programming jumper from position 1 with the long-nosed pliers and replace it onto position 3 of the jumper. You have now changed disk drive "B" to "D".

(10) Replace the top cover of the unit by sliding it back over the unit. Turn it upside down and replace the black screws and fasten them.

(11) Have the rear of the FDD 3000 unit facing you with the 34 conductor ribbon cable extending towards you. Take and place the 37-position "D-type" Male Flat Ribbon Connector facing down with the wide side towards you and the narrower side towards the FDD 3000 unit. Place the 37-position "D-Type" Male Flat Ribbon Connector right justified on the 34 conductor ribbon cable as possible so that positions 1, 2, & 20 have no ribbon to connect to. This is one of the 5 critical connections that are important you get correct. The other 4 are the swapping of the wires in the Amdisk unit. Ensure that when the ribbon cable is extended horizontally from the rear of the FDD 3000 unit that the 37-Position "D-type" Male Flat Ribbon Connector faces down and that the left 3 positions on the 37-position "D-type" Male Flat Ribbon Connector (positions 1, 2, & 20) have no ribbon cable leading to them.

Modifications to the Amdek Amdisk III unit

(1) Remove the 5 black screw (2 on each side near the bottom of the unit and 1 in the rear at the bottom near the 37-position "D-Type" Female connector) with a Phillips screwdriver and remove the grey cover by prying open both sides of the grey cover from the bottom with your hands and sliding the grey cover backwards.

(2) You will see 2 sets of DIP switches on each disk drive. The first one on top is labelled DSW1 and has 5 switches. This is the unit's programming jumpers. Switch 1 should always be off. Only 1 of the 5 switches should be ON at a time. Switch 2 ON selects the drive as "A", Switch 3 selects the drive as "B", switch 4 selects the drive as "C", and switch 5 selects the drive as "D". The second DIP is immediately beneath the first and is labelled DSW2. DSW2 contains 7 switches. These are the pull-up resistors. Look at the DIP settings for disk 1 on the unit. This is rather difficult and might produce some eyestrain. Don't worry about that because the factory settings are correct for this disk drive. DIP DSW1 should have switch 3 ON only and on DSW2 all switches should be OFF. If not, make these corrections.

(3) On disk 0 of the unit, you must change DIP DSW1 from its factory setting. Move switch 3 to OFF and switch 2 to ON. Disk drive 0 will become drive "A" and disk drive 1 will become "B" on your expanded system.

(4) Remove the card-edge connector from disk drive 0 of the unit with your hands.

(5) You must clip 4 wires leading from card-edge connector 0 to card-edge connector. They should be cut at about 1.75 inches from the card-edge connector "0" with the diagonal cutters. These wires are annotated in the diagram below with either 1 or 2 asterisks. They are: 10-Blue, 12-Yellow, 14-Red, & 16-Black.

Connecting The Amdek Amdisk III
To The Zebra FDD 3000

```
                    Top
     T  1-Brown  ===  1-Brown     T
     o  2-Red    ===  2-Red       o
        3-Orange ===  3-Orange
     C  4-Yellow ===  4-Yellow    C
     a  5-Green  ===  5-Green     a
     r  6-Blue   ===  6-Blue      r
     d  7-Violet ===  7-Violet    d
     -  8-Grey   ===  8-Grey      -
     e  9-White  ===  9-White     e
     d 10-Blue   === 10-Blue   ** d
     g 11-Green  === 11-Green     g
     e 12-Yellow === 12-Yellow  * e
       13-Orange === 13-Orange
     C 14-Red    === 14-Red     * C
     o 15-Brown  === 15-Brown     o
     n 16-Black  === 16-Black  ** n
     n 17-Violet === 17-Violet    n
     e 18-Grey   === 18-Grey      e
     c 19-White  === 19-White     c
     t 20-Black  === 20-Black     t
     o 21-Brown  === 21-Brown     o
     r 22-Red    === 22-Red       r
       23-Orange === 23-Orange
     0 24-Yellow === 24-Yellow    1
       25-Green  === 25-Green
       26-Blue   === 26-Blue
       27-Violet === 27-Violet
       28-Grey   === 28-Grey
       29-White  === 29-White
       30-Black  === 30-Black
       31-Brown  === 31-Brown
       32-Red    === 32-Red
       33-Orange === 33-Orange
       34-Red    === 34-Red
                  Bottom
```

(6) Carefully strip off .25 of an inch of insulation from these 4 cut wires so as not to cut off any more of the wires themselves.

(7) Connect the 10-Blue wire connected to card-edge connector 0 to 16-Black coming from the card-edge connector 1. Solder these wires using the rosin core solder and the 40-Watt pencil iron. When the solder cools down, place a small strip of dielectric tape over the soldered connection so as to insulate it.

(8) Connect the 16-Black wire connected to card-edge connector 0 to 10-Blue coming from the card-edge connector 1. Solder these wires using the rosin core solder and the 40-Watt pencil

iron. When the solder cools down, place a small strip of dielectric tape over the soldered connection so as to insulate it.

(9) Connect the 12-Yellow wire connected to card-edge connector 0 to 14-Red coming from the card-edge connector 1. Solder these wires using the rosin core solder and the 40-Watt pencil iron. When the solder cools down, place a small strip of dielectric tape over the soldered connection so as to insulate it.

(10) Connect the 14-Red wire connected to card-edge connector 0 to 12-Yellow coming from the card-edge connector 1. Solder these wires using the rosin core solder and the 40-Watt pencil iron. When the solder cools down, place a small strip of dielectric tape over the soldered connection so as to insulate it.

(11) Visually check to ensure the connections that you have now
are the same as the diagram illustrated below:

```
                    Top
     T  1-Brown  ===  1-Brown     T
     o  2-Red    ===  2-Red       o
        3-Orange ===  3-Orange
     C  4-Yellow ===  4-Yellow    C
     a  5-Green  ===  5-Green     a
     r  6-Blue   ===  6-Blue      r
     d  7-Violet ===  7-Violet    d
     -  8-Grey   ===  8-Grey      -
     e  9-White  ===  9-White     e
     d 10-Blue   *** 16-Black  ** d
     g 11-Green  === 11-Green     g
     e 12-Yellow *** 14-Red     * e
       13-Orange === 13-Orange      *** = Soldered
     C 14-Red    *** 12-Yellow  *        Connection
     o 15-Brown  === 15-Brown     o
     n 16-Black  *** 10-Blue   ** n
     n 17-Violet === 17-Violet    n
     e 18-Grey   === 18-Grey      e
     c 19-White  === 19-White     c
     t 20-Black  === 20-Black     t
     o 21-Brown  === 21-Brown     o
     r 22-Red    === 22-Red       r
       23-Orange === 23-Orange
     0 24-Yellow === 24-Yellow    1
       25-Green  === 25-Green
       26-Blue   === 26-Blue
       27-Violet === 27-Violet
       28-Grey   === 28-Grey
       29-White  === 29-White
       30-Black  === 30-Black
       31-Brown  === 31-Brown
       32-Red    === 32-Red
       33-Orange === 33-Orange
       34-Red    === 34-Red
                  Bottom
```

Connecting The Amdek Amdisk III
To The Zebra FDD 3000
continued from page 6

(12) Replace the card-edge connector to disk drive 0 of the unit with your hands.

(13) Replace the grey cover and slide it over the beige front somewhat so that it "locks" in. Replace and fasten the 5 black screws with the Phillips screwdriver.

Operating the Expanded System
----

(1) Ensure that all devices are plugged in to the electrical outlet and are in the "OFF" position. Place the FDD 3000 unit facing you and place the Amdek Amdisk III unit facing you on the left side of the FDD 3000 unit. Connect the 37-position "D-type" Male Flat Ribbon Connector extending from the FDD 3000 unit onto the Amdek Amdisk III 37-position Female Connector (located at the rear of the Amdek Amdisk III unit). Ensure that your FDD 3000 unit is hooked up to your silver expansion box sitting on the "T-dock" connector connected to your Timex Sinclair 2068. Your computer should be in the "OFF" position.
(2) Push the button located in the top right side of the Amdek Amdisk III unit to the "ON" position.
(3) Power up the FDD 3000 unit from the rear and the "power on" LED should light up red indicating power to the unit. Both LEDs on the Amdek Amdisk III unit should light up green.
(4) Insert a formatted disk into disk drive 0 of the Amdek Amdisk III unit. You will hear the familiar whirring of the disk indicating that the operating system has been read.
(5) Ensure that your monitor or television display is ON. Now you can turn on your computer. Everything now is the same as before when you had the unexpanded system.

Expanded System Notes
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(1) This modification is for the Amdek Amdisk III unit that is IBM compatible, not for the Amdek Amdisk III-B units that are Shugart compatible.
(2) When a disk is inserted into the Amdek Amdisk III unit, the LED will remain green if side "A" of the disk is inserted or will change to red if side "B" of the disk is inserted.
(3) The Amdek Amdisk III disk drive 0 is drive "A" and disk drive 1 is drive "B", the FDD 3000 disk drive A is now drive "C" and disk drive B is now drive "D" in the expanded system. This is for both the T.O.S. operating system & under CP/M. This also works for the Spectrum mode if your silver interface box is modified for it and have a Spectrum T.O.S. disk.   Happy computing!
(4) The LEDs on the Amdek Amdisk III unit will not light up properly when a disk drive is selected. This is the only minor inconvenience that you must tolerate.
If you have any problems or have any questions, telephone me, Jay Siegle, at (718) 435-4128.

TIMEX TIDBITS

Joan Keally has reported the she recently spoke with a Timex Customer Service Rep. During which she was told that although they no longer will service out.-of-warranty computers, they will continue to honor warranties to the best of their ability.

Ron Havlen (4307 Chambers Rd, Horseheads, NY 14845) has Modem-7 and IMP operating with a TS-2068 and Zebra FDD in CP/M mode. This is good news for telecommuters with the Zebra FDD. He is offering these programs and other CP/M software for free. All you need to do is mail Ron a blank diskette will return postage. It's a deal that is hard to beat!

Jay Siegle reports that he has been able to use his TS-1000 to telecommute at 1200 baud using the Memotech RS-232 interface and a program that it came with. It doesn' allow for file transfers, but it is FAST!

Jack Dohany has a new catalog/update letter. It has lots of great software enhancements for your TS-2068. For a copy, send one dollar to Jack Dohany, 390 Rutherford, Redwood City, CA 94061

ZX-Appeal reports that WEYMIL has stopped carrying T/S related products and now only supports MS-DOS machines.

Leo Majewski purchased one of the $85 TS-2068s from the Brooklyn Closeout Corp and he reported that they sent him a used (perhaps refurbished) machine wrapped in plastic without a manual.

According to Mark Steuber of Sharp's (QL Dealer), the Z88 from Cambridge Computer is selling for $499, but that price will increase due to the falling dollar.

Rumors are spreading that a man in Arkansas is making NMI switches for the Zebra FDD that only operate in Spectrum mode!

PreVIEW (QL Program)
By Al Feng

Occassionally, you may encounter a BOOT program which more closely resembles a series of 'direct commands' rather than a SuperBASIC program using line numbers. This is economical, but makes it difficult to modify. This is particularly irksome when you want to convert to floppy disks from microdrive tapes. An example of this is the BOOT for the Turbo TOOLKIT:

        _base=respr(6144):lbytes MDV1_turbo_tk_code,_base:print #0;

'STOP PRESS! PLEASE READ UPDATES_DOC!':call _base:new
This 'program', for example, cannot be LISTed on the screen in the normal manner by 'breaking' into it by using CTRL SPACE, and the typing LIST. If you cannot look at it, how can you modify it? One solution is to use the HARDCOPY program which was LLISTED recently in this newsletter (Oct 1987). Of course, you may not wish to use an entire sheet of paper for what amounts to a two line program.

PreVIEW (QL Program)
continued from page 7

PreVIEW can be used to look at either an ASCII or _doc file on a microdrive or disk without actually loading the program and/or Quill and the file_doc.

The programming logic used in preVIEW is similar to that used in the HARDCOPY program. While similar, preVIEW has several changesn and programming ennancements. If you decide to take advantage or the similarity between the two programs by simply editing the earlier program, you should first note the variances prior to editing (the HARDCOPY program is already on file with the CATUG librarian: Butch Weinberg).

For people who want to use this program with floppy disks instead of microdrives, you simply have to change the "mdv" to "flp" in line 110.

The screen is set up for an 80 column composite monitor. If you cannot see the "help" screen on the top OR the left/right margins of the interior screen, then reduce the window (line 140) to something like: Window 435,226,40,14.

NOTE: The lines that are comparable are:

preVIEW	HARDCOPY
120	130
160 - 330	190 - 360
360 - 430	390 - 460
Similar lines are:	
340 & 350	370 & 380
450 - 480	480 - 520

          *   *   *   *   *

PreVIEW Program Listing

```
100  REMark  Pre-VIEW [by Alphonso Feng; 13 Nov 1987]
110  drv$="1":type$="mdv"
120  OPEN#8, scr_512x255a0x0:PAPER#8,7:INK#8,4:BORDER#8,1,7
130  OPEN#10, scr_460x14a30x0:PAPER#10,7:INK#10,4:BORDER#10,1,7
140  MODE 4:WINDOW 455,226,30,14:PAPER 7:INK 4:BORDER 1,4
150  CLS: INK 0:PRINT\" preVIEW from ";type$;drv$;"_":INK 2
160  DIM dir$(76,15):DELETE type$ & "1_FILE.DIRectory"
170  OPEN_NEW #5, type$ & "1_FILE.Directory"
180  DIR #5, type$ & drv$ & "_"
190  PRINT #5,"----"
200  CLOSE #5
210  OPEN_IN #6, type$ & "1_FILE.Directory"
220  FOR c=0 to 76
230  INPUT #6,dir$(c)
240  IF dir$(c)="----" THEN EXIT c
250  END FOR c
260  CLOSE #6
270  c=c-1
280  AT 1,19: PRINT dir$(0),,,,:PRINT dir$(1)
290  AT 3,0: CLS 2
300  FOR n=1 TO c-1
310  PRINT "[";CHRS(n+48)!
320  PRINT "] ";dir$(n+1),
330  END FOR n
340  CLS#10:PRINT#10\,"   [0] ";type$;"2_, [.] ";type$;"1_, [/]
     Quit, [ PREFIX ] TO ";UNDER#10,1;:PRINT#10\"preVIEW";:
     UNDER#10,0
350  INK 4: AT 1, 35: PRINT " -- pre - VIEW -- ": INK 0
360  REPeat key
370  akey=CODE(INKEYS)
380  IF akey>45 AND akey<128 THEN EXIT key
390  END REPeat key
400  akey=akey-48
410  IF akey=-2 THEN
420  IF drv$>1 THEN drv$=drv$-1:GO TO 150
430  END IF
440  IF akey=-1 THEN CLS: PRINT\\\\\,,," HIT <ANYKEY> TO EXIT"
     \\\\,,,"     for SuperBASIC": PAUSE
450  IF NOT akey THEN
460  drv$=drv$+1: GO TO 150
470  ELSE
480  IF akey<c  THEN COPY type$&drv$&"_" & dir$(akey+1) TO
     con_455x226a30x14
490  CLS#10:PRINT#10,,,, "  HIT ANY KEY TO CONTINUE":PAUSE:
     GO TO 140
500  END IF
```

CATUG LIBRARY NOTES

Each month I will start posting a list of articles that the CATUG library has received from other user groups via our newsletter exchange. The newsletters with these articles will be available for check out at the monthly CATUG meetings.

1. USER AMUSER (Jan 1988)
2. CATS Newsletter (Jan 1988)
   PLOT2 (QL Plotter Program)
   Using Archive Part II
   TS2068 Color Printouts
   Quicksort
3. QZX (Oct 1987)
   Sinclair Station Control System
4. QZX (Nov 1987)
   TS1000/RS-232C - CAT
5. QZX (Dec 1987)
   SPACE - 1000
   MILI-CLK/1000 (TS-1000 Program)
   Disk Quality
   Field Day Log Additions
6. SLUG Newsletter (Jan 1988)
   PC8300: first thoughts
7. LISTING Newsletter (Dec 1987)
   Graphics For Zebra's Designer Series
   QL Cooling Problemsn Part 1

CATUG LIBRARY NOTES

8. HATS Newsletter (Jan 1988)
9. The HACKER Newsletter (Jan 1988)
10. The HACKER Newsletter (Feb 1988)
    Pison PCFOUR MS-DOS Software Review
    Super Word Search (TS-2068 Program)
11. SMUG Bytes (Jan 1988)
    So You Want To Write A Program!
    "SQ" Notes
12. I.S.T.U.G. Newsletter (Dec 1987/Jan 1988)
    Compatability Problems
    Secret Agent (TS-2068 Program)
13. SINCUS Newsletter (Jan/Feb 1988)
    ZX81/TS1000 Tips
    Powerful Projects With Your Timex/Sinclair (Review)
    Data Transfer On The Serial Port
14. ZX-Appeal (Jan 1988)
    Getting The Right Proportions
    Playing With Electricity (QL Digitizer)
    Charts (TS-2068 Program)
    Sketch Pad (TS-2068 Program)
15. The D-F Data Expansion (Dec 1987)
    QL To Monitor...Come In! Buffering The QL
    The Joys Of Assembly
    MScript-Pro/File Data File Interchange
    Screen Splitter (Spectrum Progrsam)
16. The D-F Data Expansion (Jan 1988)
    Star Tip (Spectrum Program)
    Aerco RP/M And Handling Libraries
    JRT Pascal
17. User Amuser (Feb 1988)
    BiT/S n PCs
18. SLUG Newsletter (Feb 1988)
    Converting PRO/FILE To Disk
    Tips On ZX81/TS1000 Computer Repair
19. FDD Express (Sept 1987)
20. FDD Express (Oct 1987)
    FDD 3000/Timachine Fix
    Start (TS-2068 Program)
21. FDD Express (Nov 1987)
    FDD 3000 User List
    Dual Drive Access Subroutine
22. FDD Express (Dec 1987)
    Notes On CP/M Terminal From Zebra
    Addendum To Kurt Casby's CP/M Term Notes
23. FDD Express (Jan 1988)
24. FDD Express (Feb 1988)
    Start Revisited (TS-2068 Program)
25. FDD Express (Mar 1988)
    Tasword II For The FDD (Plus CP/M)

TIMEX/SINCLAIR BBS DIRECTORY
(FEBRUARY 1988)

BULLETIN BOARD	NUMBER	NOTES	RATES
VSYS TIMEX/SINCLAIR BBS	(201) 527-0535	7 M @ % ?	16/15
QLCOM BBS	(201) 328-2919	7 M D @	16/15
T.S.U.G.	(201) 956-7703	8 L D @	15/14
TIME-=<X>=-CHANGE BBS	(213) 329-3922	8 H D @	17/15
STARTEXT.	(214) 877-1041	8 M $	16/15
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TIMEX BBS DIRECTORY LEGEND

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M	MEDIUM USAGE T/S MSG BASE	H	HIGH USAGE T/S MSG BASE
$	SUBSCRIPTION REQUIRED	%	OPERATION DURING EVENINGS
@	ACCESSIBLE VIA PC PURSUIT	?	DOWN UNTIL FURTHER NOTICE

RATES ARE THE CHARGES FROM CHICAGO FOR THE FIRST MINUTE & EACH
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